

X17B1 SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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Prepared by: Philip Marino		Reviewed by: P. Marino	Approved by: B. Chmiel

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- 1. Valid Padlock Index and log, no locks open
 - 2. Cable penetration shield upstream of double plug doors in place as per photo.
 - 3. Cement bricks in place along entire bottom length of the two X17 front end sawtooth plug doors (see photo)
 - 4. X17B1 hutch exterior (right of door) - lead-covered KF blank flange over vacuum port when not in use.
 - 4A. X17B1 hutch exterior (X17C side) - lead-covered KF blank flange over vacuum port when not in use.
 - 5. X17B1 hutch interior – water cooled backstop/ Bremsstrahlung shield #3 downstream end of hutch (see photo)
 - Banded and in the beam path, Kirk key removed and placed in X17B1 Backstop SRU (outside hutch next to safety shutter control panel) **for X17B1 operation**
- OR
- Banded and out of the beam path **for X17B2/B3 operation**
- 6. Bremsstrahlung Shield #1 (in front of MS Monochromator) in place and banded (see photo **Inside Transport Hutch** (view items through window if hutch is interlocked))
 - 7. Bremsstrahlung Shield #2 (downstream end of hutch) in place and banded (see photo **Inside Transport Hutch** (view items through window if hutch is interlocked))
 - 8. X17B1 hutch – threshold shielding bolted in place under door going into hutch.

OPCO / Beamline Staff: _____ Date: _____